CLAIMS

What is claimed is:

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1	1. An intelligent interactive call handling system, comprising:
2	a central office operable to trigger a query responsive to receiving a
3	call request for a called party;
4	a service control point coupled to the central office, the service control
5	point operable to receive the query, and trigger an internet call routing query;
6	an internet call routing system coupled to the service control point, the
7	internet call routing system being operable to receive the internet call routing query,
8	determine presence of the called party with respect to at least one registered
9	communication device, send a prompt to the called party at said at least one registered
10	communication device responsive to the presence determination, receive a reply from
11	said at least one registered communication device, and route the call responsive to the
12	reply.

- 2. The system of claim 1, further comprising a certificate authority coupled to the internet call routing system, the certificate authority being operable to authenticate the called party by searching a customer database for current subscription and payment information.
- 3. The system of claim 1, further comprising a presence engine coupled to the internet call routing system, the presence engine being operable to determine the presence of any of said at least one registered communication device.

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1 4. The system of claim 1, wherein the internet call routing query
2 comprises an account number associated with the called party, a phone number
3 associated with the called party, a registration identification associated with the called
4 party, and a certificate associated with the called party.

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- 5. The system of claim 1, further comprising a gateway coupled between the service control point and the internet call routing system, the gateway being operable to translate protocols between the signaling system-7 protocol and the internet protocol.
- 1 6. The system of claim 1, further comprising at least one of a short
 2 message service server, an electronic mail server, an instant messaging server and a
 3 simple object access protocol server, said server(s) being coupled to the internet call
 4 routing system, and being operable to forward the prompt to a registered
 5 communication device responsive to instructions from the internet call routing
 6 system.

1	7. An internet call routing system, comprising:
2	receive logic operable to receive a call query from a service control
3	point via a gateway;
4	presence logic coupled to the receive logic, the presence logic being
5	operable to determine whether a called party associated with the call query is present
6	with respect to at least one registered communication device associated with the
7	called party;
8	user-interface logic coupled to the presence logic, the user-interface
9	logic being operable send a prompt to the called party via said at least one registered
10	communication device responsive to the presence determination, and receive a reply
11	from the called party; and
12	forwarding logic coupled to the user interface logic, the forwarding
13	logic being operable to forward a call associated with the call query responsive to the
14	reply.
1	8. The system of claim 7, further comprising:
2	a database operable to store a profile associated with the called party
3	including a list comprising said at least one registered communication device, the
4	database being operable to provide the list associated with the called party to the
5 .	presence logic.
1	9. The system of claim 7, wherein the user-interface logic comprises at
2	least one of a short message server, an electronic mail server, a simple object access
3	protocol server, and an instant messaging server.

10. The system of claim 7, wherein the call query comprises an account number associated with the called party, a phone number associated with the called party, a registration identification associated with the called party, and a certificate associated with the called party.

- 11. The system of claim 10, further comprising authentication logic coupled to the receive logic operable to employ the certificate associated with the called party to authenticate the called party.
- 12. The system of claim 11, wherein the authentication logic authenticates the called party, and assures that the called party continues to subscribe to a service provided by the internet call routing system.
- 13. The system of claim 7, further comprising a rules engine, the rules engine being coupled to the presence logic, the rules engine being operable to parse at least one rule associated with the called party, and the user-interface logic is operable to send a prompt to the called party via said at least one registered communication device responsive to the presence determination and rules engine, and receive a reply from the called party.
- 14. The system of claim 7, wherein said at least one registered communication device comprises at least one of a cellular phone and an internet protocol phone.

1	15. A method of providing intelligent interactive call handling, comprising
2	the steps of:
3	receiving a call query from a service control point via a gateway;
4	determining whether a called party associated with the call query is
5	present with respect to at least one registered communication device associated with
6	the called party;
7	sending a prompt to the called party via said at least one registered
8	communication device responsive to the presence determination;
9	receiving a reply from the called party via said at least one registered
10	communication device; and
11	connecting the call responsive to the reply.
1	16. The method of claim 15, wherein the method further comprises:
2	storing a profile associated with the called party including a list
3	comprising said at least one registered communication device, the database being
4	operable to provide the list associated with the called party to the presence logic.
1	17. The method of claim 16, wherein the method further comprises:
2	storing a profile associated with the called party, the profile also
3	including at least one rule for sending the prompt to the called party.
1	18. The method of claim 17, further comprising:
2	parsing said at least one rule prior to sending the prompt to the called
3	party; and

4	sending a message to the called party via said at least one registered
5	communication device responsive to the parsing and the presence determination.
1	19. The method of claim 18, wherein the prompt is an internet-based
2	message.
1	20. The method of claim 15, further comprising:
2	using at least one of a short message server, an electronic mail server, a
3	simple object access protocol server, and an instant messaging server, to send the
4	message to the called party via said at least one registered communication device
5	responsive to the presence determination
1	21. The method of claim 20, wherein said at least one registered
2	communication device includes at least one of a cellular phone and an internet
3	protocol phone.
1	22. The method of claim 15, wherein the call query comprises an account
2	number associated with the called party, a phone number associated with the called
3	party, a registration identification associated with the called party, and a certificate
4	associated with the called party.
1	23. The method of claim 22, further comprising using the certificate
2	associated with the called party to authenticate the called party.

1	24. A method of providing intelligent interactive call handling, comprising
2	the steps of:
3	receiving a call query from a service control point via a gateway;
4	determining whether a called party associated with the call query is
5	present with respect to at least one registered communication device associated with
6	the called party;
7	sending a prompt to the called party via said at least one registered
8	communication device responsive to the presence determination;
9	receiving a reply from the called party via said at least one registered
10	communication device; and
11	connecting the call responsive to the reply.
1	25. The method of claim 24, wherein the method further comprises:
2	storing a profile associated with the called party including a list
3	comprising said at least one registered communication device, the database being
4	operable to provide the list associated with the called party to the presence logic.
1	26. The method of claim 25, wherein the method further comprises:
2	storing a profile associated with the called party, the profile also
3	including at least one rule for sending the prompt to the called party.
1	27. The method of claim 26, further comprising:
2	parsing said at least one rule prior to sending the prompt to the called
3	party; and

communication device responsive to the parsing and the presence determination. 5 The method of claim 27, wherein the prompt is an internet-based 28. 1 2 message. The method of claim 24, further comprising: 29. 1 using at least one of a short message server, an electronic mail server, a 2 simple object access protocol server, and an instant messaging server, to send the 3 message to the called party via said at least one registered communication device 4 responsive to the presence determination.. 5 30. The method of claim 29, wherein said at least one registered 1 communication device includes at least one of a cellular phone and an internet 2 protocol phone. 3 31. The method of claim 24, wherein the call query comprises an account 1 number associated with the called party, a phone number associated with the called 2 party, a registration identification associated with the called party, and a certificate 3 associated with the called party. 4 32. The method of claim 31, further comprising using the certificate 1 associated with the called party to authenticate the called party. 2

sending a message to the called party via said at least one registered